

Victoria E. Chen

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EDUCATION

Texas A&M University

Bachelor of Science, Computer Engineering, GPA 4.0

August 2021 – May 2025

College Station, TX

PROJECTS

Fullstack Student Organization Website (SASE) | sase-tamu.vercel.app | Next.js, React.js, MongoDB Atlas, TypeScript

- Created an intuitive user interface and interactive features using technologies such as Next.js/React.js, TypeScript, and Tailwind CSS, enhancing the user experience and accessibility.
- Integrated a cloud database system using MongoDB Atlas to store and display member participation and points.

Seatr (The Solution to Airline Boarding) | seatr.vercel.app | JavaScript, Next.js, React.js, MongoDB Atlas, Tailwind CSS

- Designed the front-end interface of Seatr, utilizing TypeScript, Next.js, MongoDB Atlas, JavaScript, and Tailwind CSS, to create a visually appealing and fully responsive user interface.
- Collaborated on an app utilizing algorithms to ensure optimal seating arrangements to minimize boarding time.

EXPERIENCE

Software Engineering Intern

Raytheon Intelligence and Space

May 2023 – August 2023

Dallas, Texas

- Develop and enhance radar system software components using C++/C, contributing to the functionality and performance of the system, as well as develop and enhance radar system software components.

High Performance Computing Student Technician

TAMU High Performance Computing Center (TAMU HPRC)

February 2023 – Present

College Station, Texas

- Provide technical support and advice to users of the HPC cluster, through a Linux CLI including assisting users with job submission, queue management, and parallel computing techniques, ensuring efficient utilization of HPC resources.
- Design and develop a full-stack user-friendly job dashboard, using Ruby, JavaScript, and React.js, providing an intuitive interface for users to submit batch files and monitor job progress.

Data Science Undergraduate Research Assistant

NeuroErgonomics Laboratory

January 2023 – Present

College Station, Texas

- Develop pipelines to transform eye-tracking data into entropy, studying human interaction with autonomous vehicles.
- Utilize Python to create a comprehensive pipeline with complex mathematical models to interpret eye-tracking data, identify gaze patterns, fixations, and saccades, and quantify visual attention metrics.

LEADERSHIP

President

Society of Asian Scientists and Engineers

April 2023 - Present

- Lead and guide a diverse membership of over 100+ active individuals, fostering an inclusive environment and promoting multicultural involvement within an organization dedicated to service and professional development.
- Preside over weekly board meetings to facilitate productive discussions and collaborate with board members to ensure organizational transparency and align plans with organizational goals and pillars.

Logistics Organizer

TAMU Datathon

December 2022 - Present

- Manage event operations for TAMU Datathon, a data science hackathon involving over 200+ participants.
- Demonstrate strong leadership skills in managing and coordinating all aspects of the event, including company sponsorship, event operations, finance, and personnel handling.

TECHNICAL SKILLS

Languages: C++, Python, JavaScript, Typescript, Verilog, HTML, CSS

Frameworks and Libraries: Node.js, Next.js, React.js, MongoDB, Numpy, Pandas, Matplotlib, SciPy

Tools: Git, Linux, Docker, SLURM, MongoDB Atlas, JASP (Statistical Analysis)